

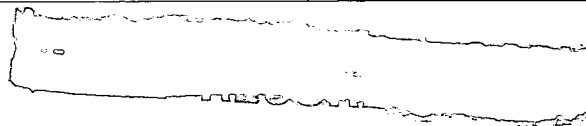


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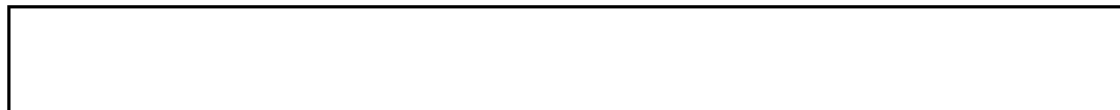
PHOTOGRAPHIC INTELLIGENCE REPORT



CHINESE POWER PLANTS

HONAN PROVINCE

Declass Review by NIMA/DOD



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DATE JUNE 1966

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CIA IMAGERY ANALYSIS DIVISION

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CHINESE POWER PLANTS

HONAN PROVINCE

- (A) Cheng-hsien Heat and Thermal Power Plant
- (B) Cheng-hsien Thermal Power Plant
- (C) Lo-yang Thermal Power Plant
- (D) San-men Hsia Hydro Power Plant

REQUIREMENT

C-RR5-83,218

CIA/IAD PROJECT

30647-6

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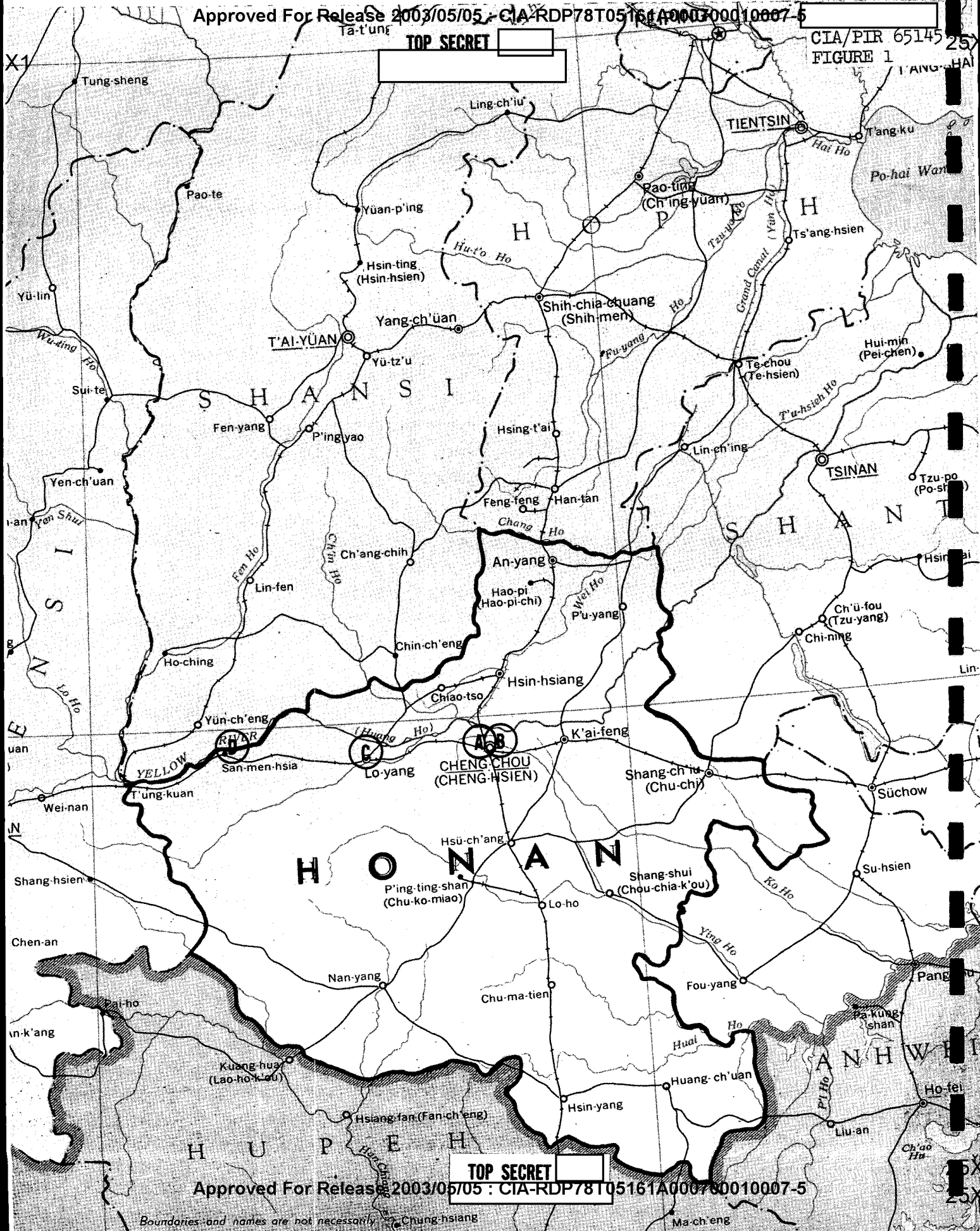
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Ta-tung

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FIGURE 1



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Boundaries and names are not necessarily those recognized by the U.S. Government.

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CHENG-HSIEN HEAT AND THERMAL POWER PLANT

NPIC NUMBER - 4-F

Cheng-hsien Heat and Thermal Power Plant is located in the eastern sector of Cheng-hsien at coordinates 34 46 10N - 113 35 10E. The facility is rail-served, coal-operated and includes a coal conveyor system, sub-station with three possible transformers, control house, bridge crane, two natural draft cooling towers, one large spray pond, two small spray ponds, and several support/storage buildings.

The powerhouse consists of an old eastern section equipped with four or five flues connecting to stack A and an expanding western section equipped with three sets of two-duct flues linked to stack B; the flue systems suggest that seven to eight boiler units exist. The quality and scale of available photography precluded the detection of dust-catchers or vents on the boilerhouse, and power cables between the generator hall and sub-station.

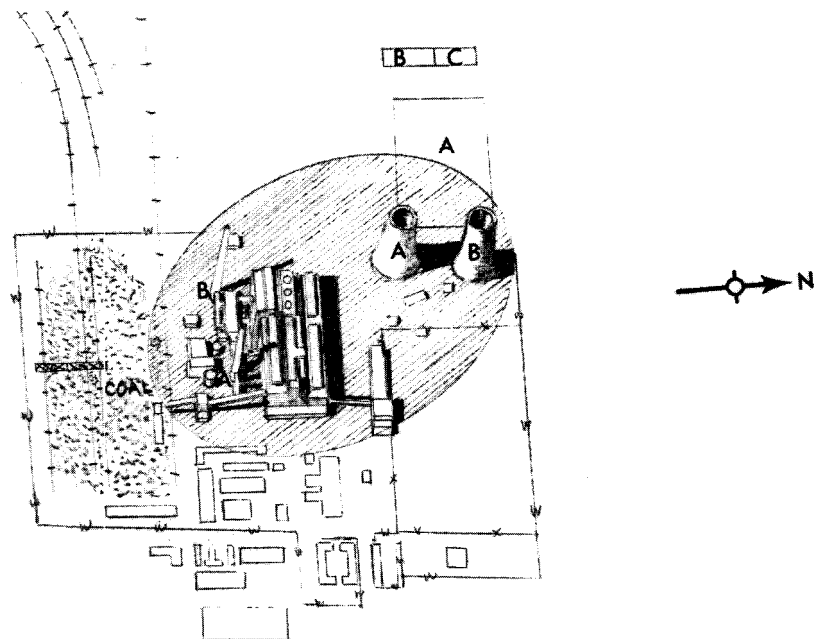
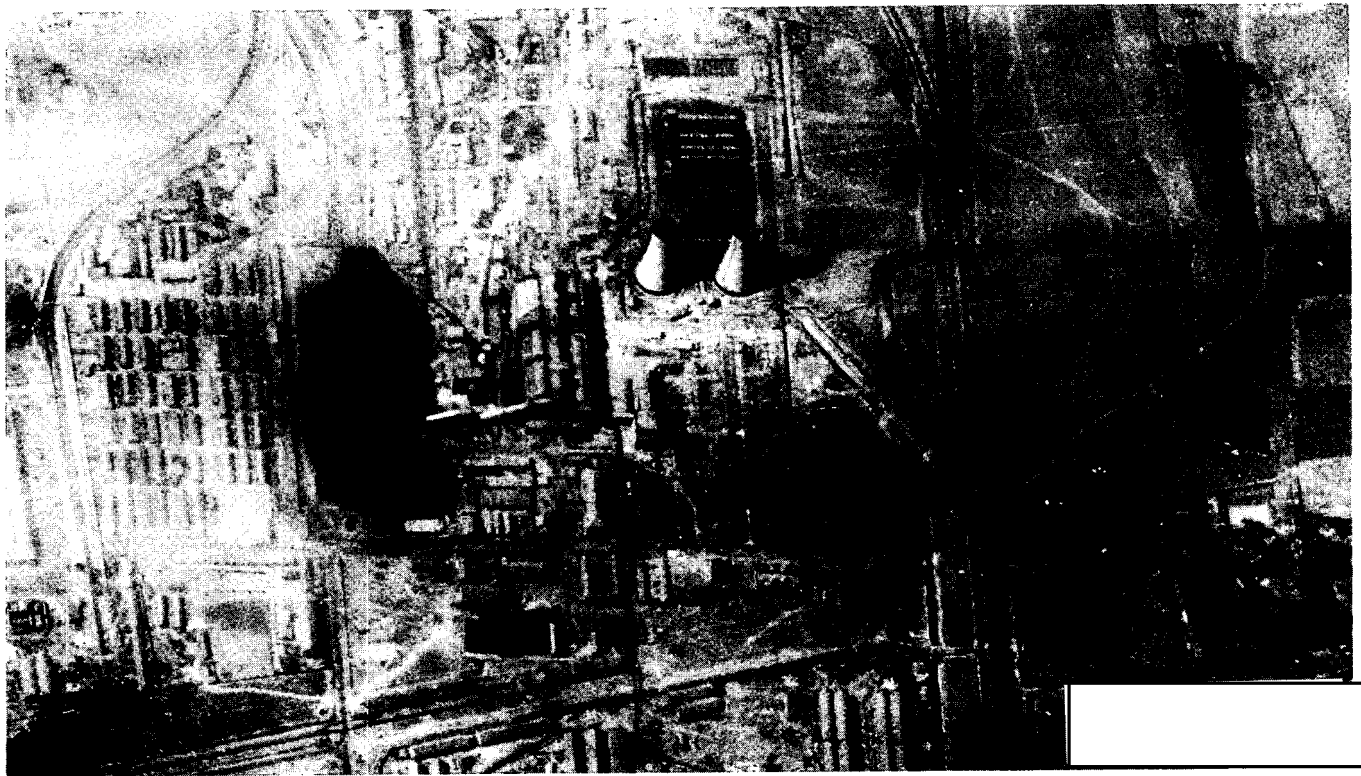
Construction has been limited to the construction of two small spray ponds, expansion of the boiler-generator hall, and completion of the flue system to stack B.

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FIGURE 2 25X1

CHENG-HSIEN HEAT AND THERMAL POWER PLANT



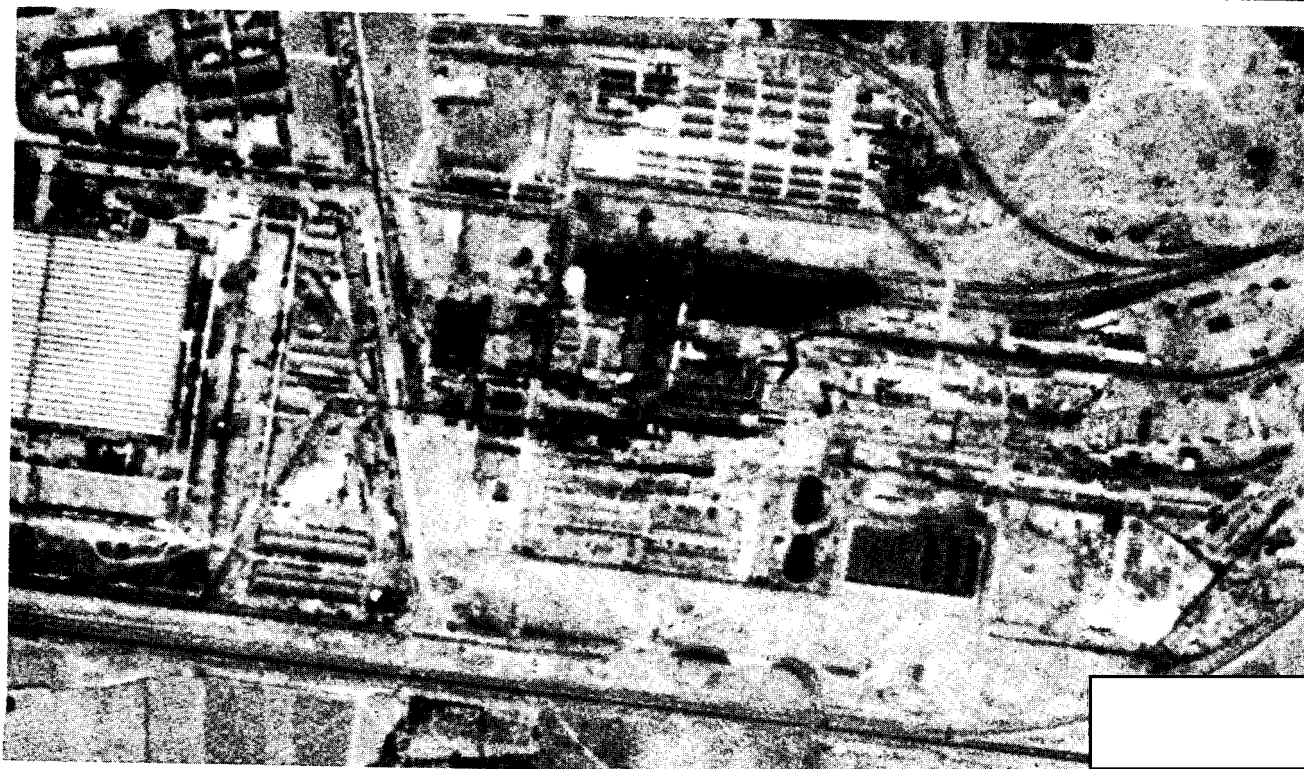
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FIGURE 3

CHENG-HSIEN HEAT AND THERMAL POWER PLANT



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CHENG-HSIEN HEAT AND THERMAL POWER PLANT

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Very light smoke from stack A. Very light vapor from cooling tower A. Spray pond A is not active.
	None	Very light smoke from stack A. Light vapor from cooling tower A. Spray pond A is in operation.
	None	Light smoke from stack A. Light vapor from cooling tower A. Spray pond A is filled but not active.
	A second stack (B) with a single flue is in place. There appears to be concrete forms and some uprights in place for boilerhouse expansion.	Very light smoke from stack A. Three sprinklers in spray pond A are active.
	No apparent change.	Very light smoke from stack A. Possible vapor from cooling towers A and B. Three units in spray pond A are active.
	Boilerhouse is extended and roofed. Foundation is in place for generator expansion.	Very light smoke from stack B. Possible vapor from cooling towers A and B. Spray pond A is active.

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CHENG-HSIEN HEAT AND THERMAL POWER PLANT

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	Generator hall for one unit is complete.	Possible smoke from stack A. Four sprinklers in operation in pond A.
	No apparent change.	Light smoke from stack B. Light vapor from cooling towers A and B. Spray pond A is active.
	Spray ponds B and C are complete. Two new boiler-generator units appear completed.	Light smoke from stack B. Light vapor from cooling towers A and B. Spray ponds A, B, and C are active.

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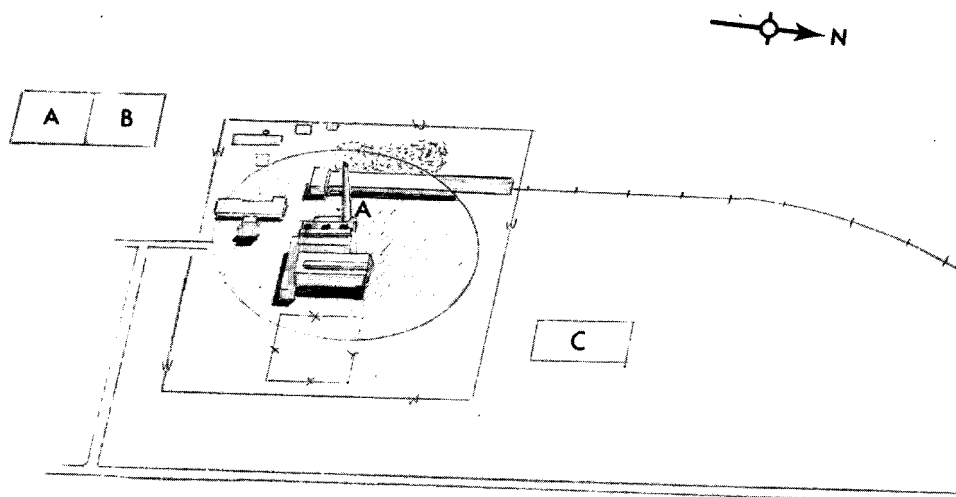
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CHENG-HSIEN THERMAL POWER PLANT
[]

Cheng-hsien Thermal Power Plant is located in the northwest sector of Cheng-hsien at coordinates 34 48 20N - 113 35 15E. The facility is rail-served, coal-operated, walled, and includes a coal conveyor and processing system, coal unloading facilities, three spray ponds, control house, sub-station with three possible transformers, and several support/storage buildings.

The boilerhouse is equipped with three dust-catcher units, probably indicating that three boiler units are installed. One set of power cables was detected leading from the generator hall to a transformer in the sub-station. No new construction has occurred during the specified period from 1963 through 1965.

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CHEUNG-HSIEN THERMAL POWER PLANT

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Very light smoke from stack A. Spray ponds A, B, and C appear to be in operation.
	None	Light smoke from stack A. Spray ponds A and B are in operation.
	None	Very light smoke from stack A. Spray ponds A and B are partially operating.
	None	Light smoke from stack A. Spray ponds A, B, and C appear to be in operation.
	None	Light smoke from stack A. Spray ponds A, B, and C are in operation.
	None	Light smoke from stack A. Spray ponds A, B, and C are in operation.

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LO-YANG THERMAL POWER PLANT

NPIC NUMBER - 17-B

Lo-yang Thermal Power Plant is located immediately north of Lo-yang Tractor Plant No. 1 at coordinates 34 41 01N - 112 22 49E. The facility is rail-served, coal-operated, and includes six spray ponds, sub-station with six transformers, coal unloading building, revetted oil storage tanks, coal conveyor and processing facilities, control house, and numerous support/storage buildings.

The powerhouse consists of two separate boilerhouse sections contiguous to a single generator hall. The eastern section appears designed to accommodate four boiler units, however, only three dust-catcher units and three sets of flues were observed as of [redacted] Heavy smoke/haze on subsequent [redacted] photography precluded an assessment of the status of the fourth boiler unit. The western boilerhouse section contains two dust-catcher units and is linked to masonry stack B by two pairs of flues, for a plant total of at least five operable boiler units. One set of three-cable power leads was observed between the generator hall and control house; smoke and haze may have precluded detection of other power leads.

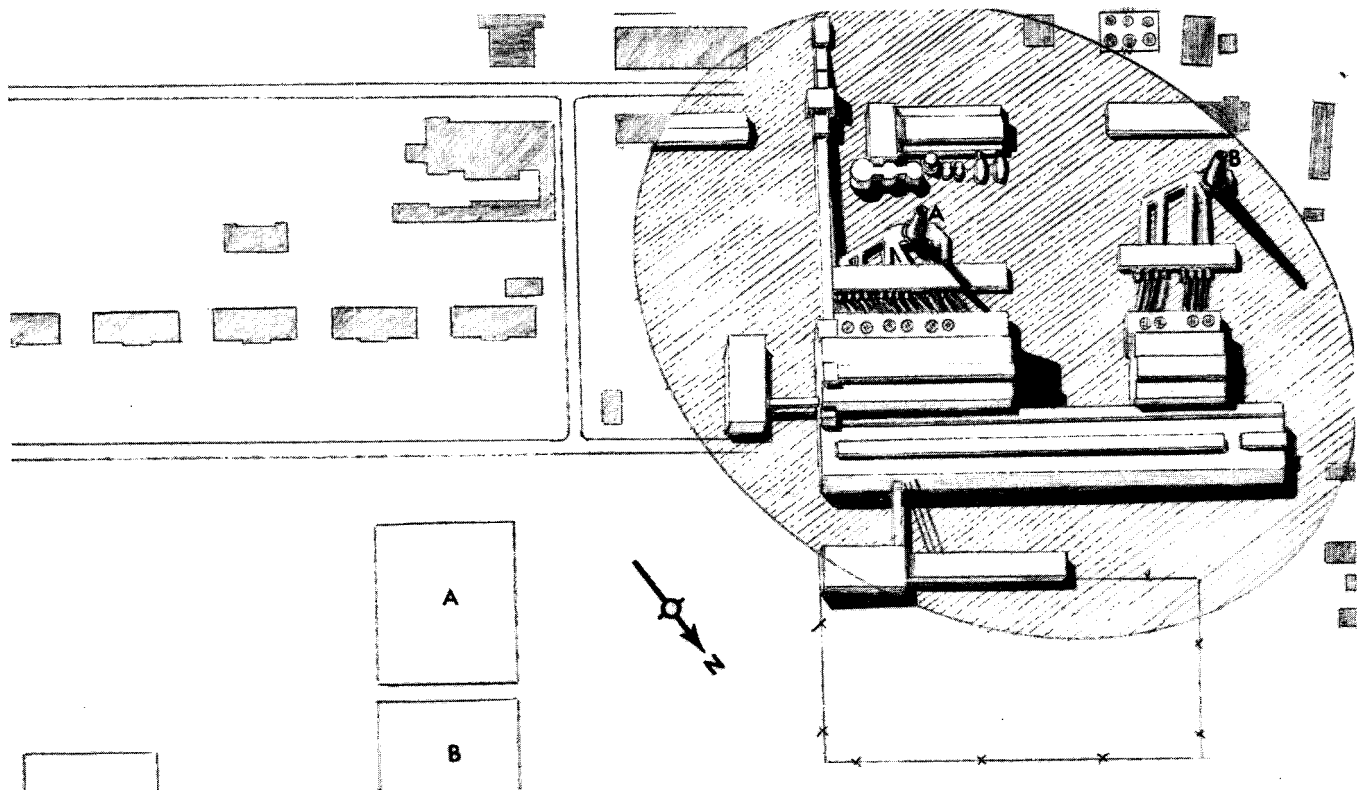
No new construction occurred during the period from 1963 through 1965.

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FIGURE 5

LO-YANG THERMAL POWER PLANT



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LO-YANG THERMAL POWER PLANT

PHOTO DATA

CONSTRUCTION ACTIVITY

LEVEL OF PRODUCTION

None

Light smoke from stack A.
Moderate smoke from stack B.
Spray ponds are active. Spray
pond F is not filled.

None

Moderate smoke from stacks A and
B. Spray ponds A, B, C, D, and E
are active. Spray pond F is empty.

None

Heavy smoke from stack A.
Moderate smoke from stack B.
Spray ponds A and B appear
active.

None

Moderate smoke from stack A...
Heavy smoke from stack B.
Spray ponds A, B, C, D, and E
are in operation. Spray pond F
appears empty.

None

Moderate smoke from stack A.
Light smoke from stack B. Spray
ponds A, B, C, and D are in operation.
Spray ponds E and F are filled,
but inactive.

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LO-YANG THERMAL POWER PLANT

PHOTO DATA	CONSTRUCTION ACTIVITY	LEVEL OF PRODUCTION
	None	Moderate smoke from stack A. Light smoke from stack B. Spray ponds A, B, C, D, E and F are in operation.
	None	Moderate smoke from stack A. Light smoke from stack B. Spray ponds A, B, C, D, and E are in operation.

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SAN-MEN HSIA HYDRO POWER PLANT

NPIC NUMBER - 25-A

San-men Hsia Hydro Power Plant is of the consolidated concrete type and is located 10 nm east of Shan-hsien on the Huang-Ho (River) at coordinates 34 49 40N - 111 20 40E. The plant was in the late stages of construction when first observed in [] the dam had been completed except for minor work on the gate hoists, and the last of eight turbo-generator sections was being roofed. Covered transformer cells (two per turbo-generator section) were being constructed between the powerhouse and dam; six of the cells were under construction and about one-half were partially covered.

A switching facility was nearing completion at the western end of the powerhouse and five of eight sets of switch gear appear to have been installed. A small sub-station is located on a hill southwest of a dam and includes several small control buildings and one possible transformer. Six small probable oil storage tanks are along a road immediately south of the switching facility.

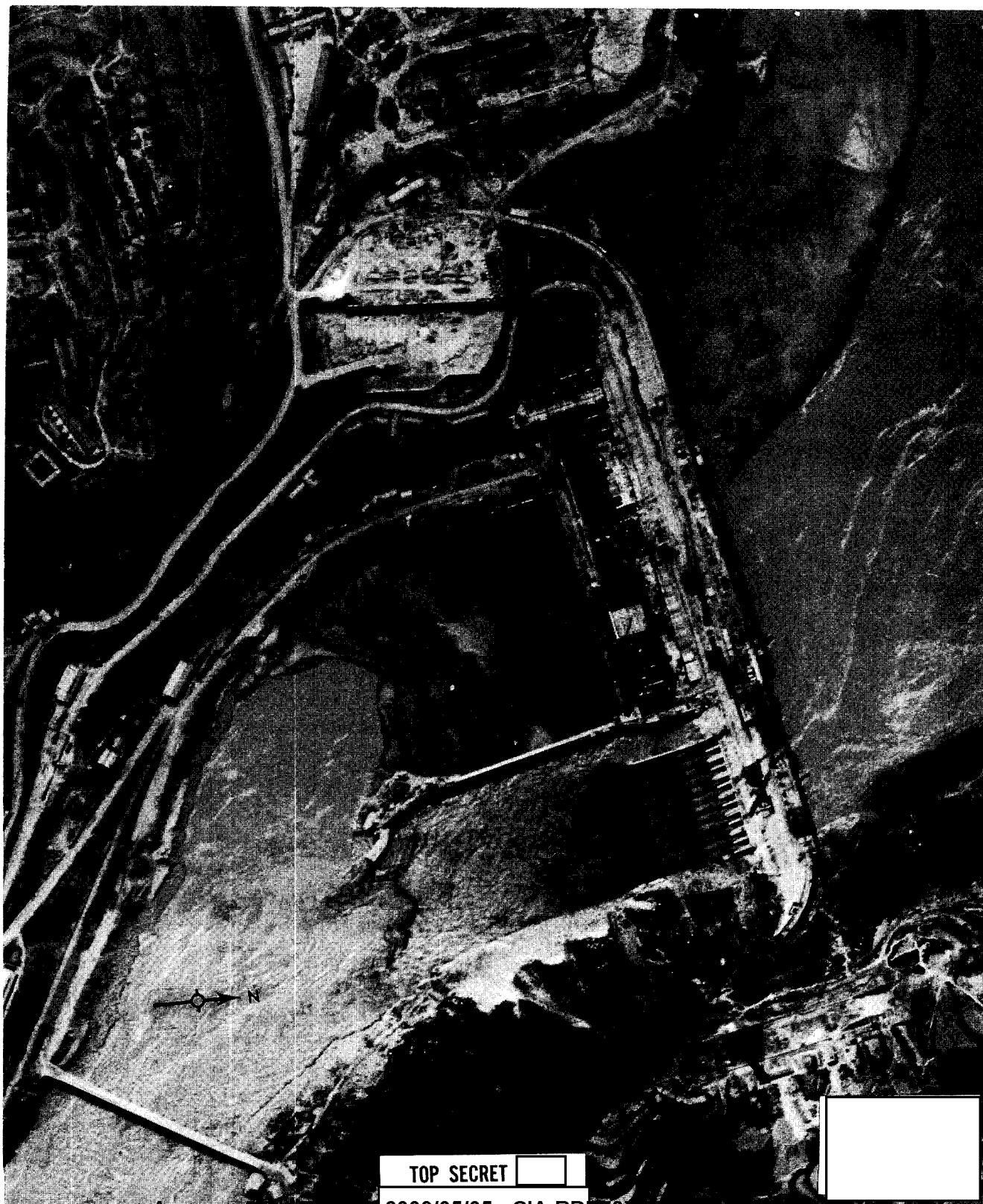
When last observed in [] the powerhouse was completely roofed and shadows indicated that no progress had occurred on construction of the transformer cells between the powerhouse and dam. A traveling support tower with aerial cable-way (observed []) is still present.

The plant has never been observed in operation on any of the [] missions covering the plant. The spillway has been in operation on all three coverages, but no head of water has been formed.

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FIGURE 6

SAN-MEN HSIA HYDRO POWER PLANT



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FIGURE 7

SAN-MEN HSIA HYDRO POWER PLANT



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